

## WASTE SITE RECLASSIFICATION FORM

Operable Unit: 300-FF-2

Control No.: 2012-117

Waste Site Code(s)/Subsite Code(s):

600-117 (310 TEDF Building)

Reclassification Category: Interim ☒ Final ☐

Reclassification Status: Closed Out ☒ No Action ☐ Rejected ☐

RCRA Postclosure ☐ Consolidated ☐ None ☐

Approvals Needed: DOE ☒ Ecology ☐ EPA ☒

### Description of current waste site condition:

The 600-117 waste site is synonymous with the 310 Treated Effluent Disposal Facility (TEDF) and is located within the 300-FF-2 Operable Unit. The 600-117 waste site was assigned to a physical structure and is not considered an unplanned release, nor does it otherwise represent contaminated media adjacent to or beneath the building. As such, the 310 TEDF was demolished in accordance with Action Memorandum #3 for the 300 Area and the *Removal Action Work Plan (RAWP) for 300 Area Facilities*, DOE/RL-2004-77, Rev. 2.

The 310 TEDF was a Clean Water Act; National Pollutant Discharge Elimination System permitted waste water treatment plant. 310 TEDF treated non-hazardous and non-radiological process waste water from 300 Area operations. The facility was deactivated in 2010 with demolition of the 310 Building and foundation being completed in December 2012. Investigation of soils beneath the floor slab following demolition of that structure confirmed no releases from the building occurred during past operations.

Site completion was performed in accordance with Section 2.6 of the RAWP and included an evaluation of soils underlying the building. Field investigations that included radiological surveys and visual inspection were performed. Final radiological surveys consisted of performing Global Positioning Environmental Radiological Surveys (GPERS). All survey results (reference Attachment 1 - GPERS maps) for building footprint soils found no radionuclides are present above background concentrations, which therefore meet the 300-FF-2 Remedial Action Goals (RAGs) for residential scenario. In addition, the foundation of the main process sump located below-grade will be left in place. Hand held radiological surveys were performed on the sump surfaces and no radionuclides are present above background concentrations (reference Attachment 2 - 310 Sump RSR). A visual inspection of the excavation soils was performed and no staining or other anomalous conditions were observed. These evaluations have been performed in accordance with remedial action objectives (RAOs) established by the *Interim Action Record of Decision for the 300-FF-2 Operable Unit, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington (300-FF-2 ROD) (EPA 2001).

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**Basis for reclassification:**

In accordance with this evaluation, the GPERS surveys and inspection results for 600-117 (310 TEDF Building) subsurface soils support a reclassification of this waste site to Interim Closed Out. The 600-117 waste site achieves the remedial action goals established by the 300-FF-2 Interim Action ROD (EPA 2001). The results of radiological surveys show that no residual contamination exists that require long-term institutional controls. The results also show that site conditions are protective of groundwater and the Columbia River.

**Regulator comments:**

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### Waste Site Controls:

Engineered Controls: ☐ Yes ☒ No Institutional Controls: ☐ Yes ☒ No O&M Requirements: ☐ Yes ☒ No

If any of the Waste Site Controls are checked Yes, specify control requirements including reference to the Record of Decision, TSD Closure Letter, or other relevant documents:

M. S. French

DOE Federal Project Director (printed)



Signature

12/6/12  
Date

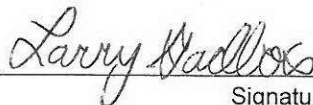
Ecology Project Manager (printed)

Signature

Date

L. E. Gadbois

EPA Project Manager (printed)



Signature

12-6-12  
Date

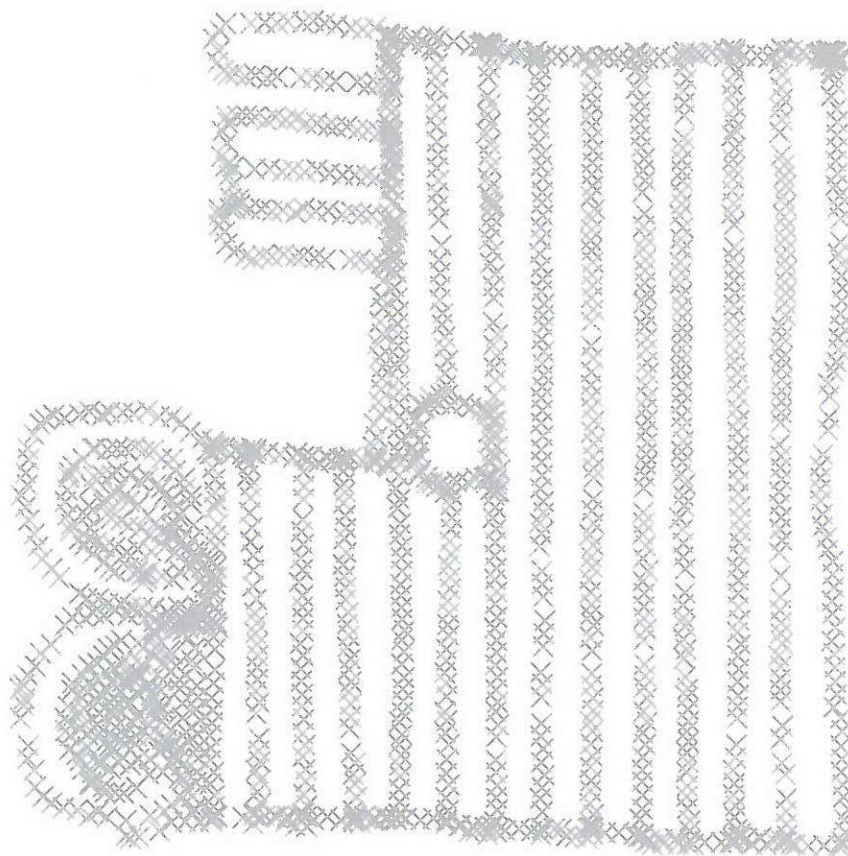


**WASTE SITE RECLASSIFICATION FORM (2012-117)**

**ATTACHMENT 1**

**600-117 (310 BUILDING) EXCAVATION  
GLOBAL POSITIONING ENVIRONMENTAL RADIOLOGICAL SURVEY MAPS**





Site View

Bkg Location  
1030 meters South  
1174 cpm



Copy

#### Legend

NET CPM

- × <1761
- 1761 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

#### Summary Statistics

Coverage File: N179  
Number of Data Pnts: 1711  
Type of Survey: gamma  
Max GCPM: 2291  
Avg Bkg CPM: 1174  
Survey Date: 11/28/2012  
Area Surveyed: 2150 m<sup>2</sup>  
Project File: ESRFRM120138  
Pdf File: ESRFRM120138C

## 300 D4 300 / 310 TEDF GPERS Radiological Survey Gamma Track Map

0 2 4 6 8 10

Meters



**EBERLINE**  
SERVICES

Survey Map Prepared By Bruce Coomer, ESI





**WASTE SITE RECLASSIFICATION FORM (2012-117)**

**ATTACHMENT 2**

**600-117 (310 BUILDING) PROCESS SUMP  
RADIOLOGICAL SURVEY RECORD**



# RADIOLOGICAL SURVEY RECORD

Page 1 of 2

## Type of Survey

☐ Routine      N/A

☒ Work Progress

## Survey #

RSR - 300PS-12-4442

## RWP # / Rev. #

N/A

## Date

12/4/12

## Time

1400

## Location

300 PS/310 Pit

## Description

310 Pit Survey

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

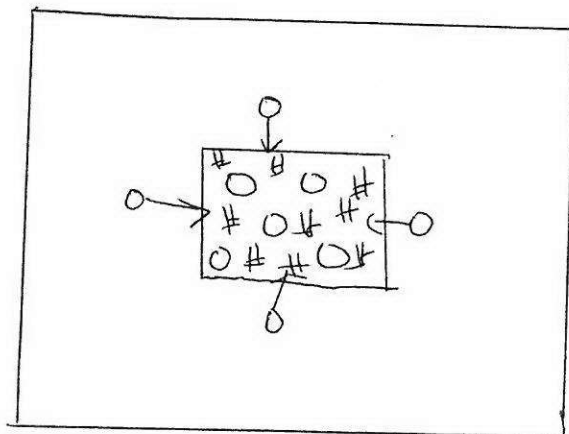
TA-07-SR-10/12

Performed Work Progress Survey of the 310 Excavation Pit.

Performed directs (on sides and floor of pit) and tech smears (on items greater than 1" - rocks, concrete).

No contamination was found

Please note that this area is not considered a radiological area and was not posted.



CA Contamination Area		HCA Contamination Area		RBA Radiological Buffer Area		ARA Radioactivity Area		[AS] Air Sample Location	RMA Radioactive Materials Area		RA Radiation Area		HRA High Radiation Area		VHRA Very High Radiation Area		
○ Technical Smear	# Direct	M Large Area Wipe	T Transferable		General Area Dose Rates =Uncorrected Meter Reading (mR/hr)		All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated					Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area		Radiological Boundary x—x—x

## Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360	SCLL8-0917	10/19/13	43-93	DTLLP-1014	10/19/13
2224-3	SCLLB-0180	5/14/13	43-93	DTLLP-0829	5/14/13
N/A	N/A	N/A	N/A	N/A	N/A

RCT Name/Signature/Date:

Deb Poteet

Dave Culver

12/4/12

12/4/12

RCT Supervisor Name/Signature/Date:

Randy Griener

Jason McNeel

12/5/12

Survey # RSR - \_\_\_\_\_

Survey # RSR -

300PS-12-4448

Circled values indicate Removable  $\beta$  contamination in mrad/hr  $\beta$

### Corrected Dose Rate Calculations

[illegible]